TOPFIELD

SRP-2300

User Guide

High Definition

Digital Satellite Receiver

Personal Video Recorder

Red Button (HbbTV) and Web-Portal

Common Interface(CI+)

The “CI Plus” Logo is a trademark of CI Plus LLP.

DVB
Digital Video
Broadcasting

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, in an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point, in an equilateral triangle, is intended to alert the user to the presence of important operation and maintenance instructions in the literature accompanying the product.

Precautions

- Read, keep and follow these instructions.
- Heed all warnings.
- Clean with a dry cloth only.
- Do not block any of the ventilation openings.
- Do not install near any heat sources or in direct sunlight as this will impair cooling.
- Do not operate this product near water. Do not place any of the objects filled with liquids, such as vases on this unit.
- Do not try to change the plug or defeat its safety purpose. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- This product is designed for indoor use only.
- Place the digital receiver on a firm and level surface.
- Do not lay any objects such as magazines on this unit.
- Do not overload power outlets. Doing so may result in a risk of fire or electrical shock.
- Never open this unit's casing under any circumstances, or the warranty will be void.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit became wet from rain or moisture, does not operate normally, or has been dropped.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

About this user guide

Thank you for purchasing our digital receiver. Please read this user guide carefully before you use the digital receiver and keep it handy for future reference.

This User Guide covers the model SRP-2300 .

- Illustrations pictured in this manual may not be exactly the same as the actual product.
- The screenshots used in this manual may not be exactly the same as those you see on the actual on-screen displays.
- Designs and specifications of the digital receiver and other accessories are subject to change without any notice in order to introduce new features or improve the functionality of the product.
- iPhone and App Store are registered trademarks of Apple, Inc.

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Chapter 1

Introduction

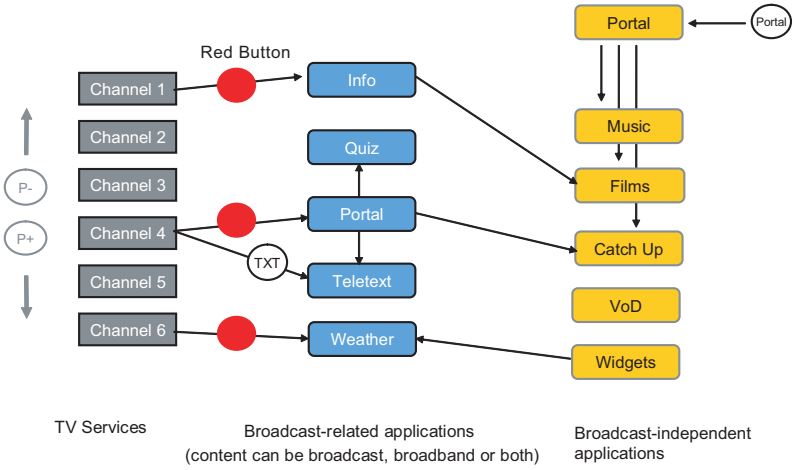
The SRP-2300 digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard. For its operation you need an antenna, which must be installed appropriately.

NOTE

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

The SRP-2300 also offers the HbbTV (Hybrid Broadcast Broadband TV) platform that combines TV services via broadcast with services via broadband. With this digital receiver adopting this integrated platform for broadcast and broadband services, you can enjoy high quality digital broadcast and seamless on-line streaming of web contents at the same time.

The following figure shows the working flow of the HbbTV-compliant receiver;



1.1 Features

This digital receiver has the following features:

- Supports DiSEqC 1.0 and DiSEqC 1.1 protocols.
- Can store up to 5,000 television and radio services.
- You can edit the services list.
- Can create lists of your favourite services.
- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- You can record up to four services while you are currently watching another.
- You can record many programmes using a built-in hard drive with large storage capacity.
- Time-shift is a special technical feature available on this digital receiver. You can pause a programme you are

watching and resume it again at a later time. Then you can quickly go to any part of the current programme by fast forward or rewind search.

- You can enjoy a wide range of web contents including broadcast-related contents (e.g. programme info, catch-up service, and other Red button services) and broadcast-independant contents (e.g. YouTube, Flickr, etc in Portal menu).
- You can play back video files of various formats including DivX.

1.2 Controlling the digital receiver

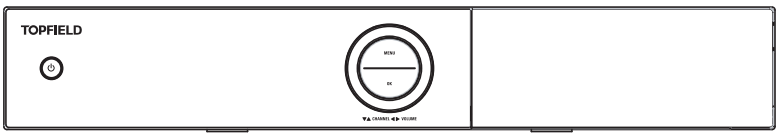
You can operate the digital receiver with the remote control or the buttons on the front panel.

NOTE

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display to indicate its status. The following indicates what they mean.



⏻ button switches the digital receiver between standby mode and active mode.

Front display shows the current time in standby mode, and displays the current service in active mode.

MENU button displays the main menu. It is also used to return to the previous menu from a submenu.

OK button displays the services list. See §5.2.1 for more details. It is also used to select a menu item.

CHANNEL ▼, ▲ buttons switch to the previous or next service.

VOLUME ◀, ▶ buttons decrease or increase the volume.

1.2.2 Remote control

- ⏻ button switches the digital receiver between standby mode and active mode.
- 🔇 mutes the sound. Press again to switch it back on.
- TV switches the remote control to television mode to operate your television.
- PVR switches the remote control to receiver mode to operate the digital receiver.
- ↻ switches over between the current service and the previously viewed one.
- *i* displays the service information box. It is also used to display more information about a programme.
- VOLUME−, VOLUME+ buttons decrease or increase the volume.
- CHANNEL∨, CHANNEL∧ buttons switch to the previous or next service.
- OK is used to select a menu item.
- MENU displays the main menu. It is also used to return to the previous menu from a submenu.
- GUIDE displays the electronic programme guide.
- EXIT is used to exit a menu or to hide on-screen information.
- LIST is used to display the services list
- 🔴 is used to access to available Hbb TV contents (Red Button Service). For details, see §5.3. It also has different functions per menu.
- 🟢 is used to make a bookmark on playback or time-shift.
- 🟡 is used to jump to next bookmark position.
- 🔵 has different functions per menu.
- Option has different functions per menu.
- 💬 is used to select a subtitle track.

- [audio] is used to select an audio track and a sound mode, or a video track of multifeed programme.
- [teletext] displays teletext.
- [VF] changes video resolution. See §4.2.1 for more details.
- [AR] changes aspect ratio. See §4.2.2 for more details.
- [TV/Radio] switches over between television services and radio services.
- [sleep] is used to set a sleep timer in 10 minute increments.
- [HDMI Bypass] switches the output of the HDMI socket over between the digital receiver and the device connected to the HDMI IN socket.
- [Portal] connects to the web service Portal.
- [record] is used to start recording.
- [stop] is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.
- [rewind] is used to start reverse playback. Subsequent presses increase the rewind speed.
- [pause] pauses live television or playback of a recorded programme.
- [fast forward] is used to start fast forward playback. Subsequent presses increase the playback speed.
- [play] resumes normal playback speed, or displays the progress bar for navigation on playback.
- [skip back] is used to jump back to the beginning of the recording on playback.
- [slow motion] is used to start slow motion playback. Subsequent presses change the playback speed.
- [skip forward] is used to jump to the end of the recording on playback.
- [menu] has different functions per menu.

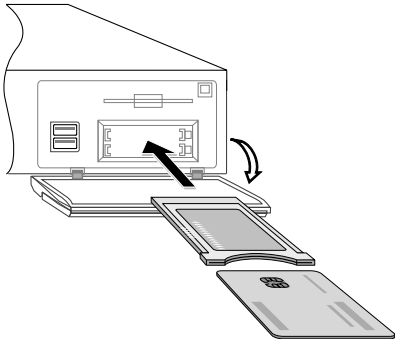
NOTE

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

The actual images and the number of buttons may be different depending on the type of remote control provided by the manufacturer.

Also, our remote control app is available on the App Store (currently on the iPhone only). Download 'TF RCU' app into your iPhone to control this unit.

1.3 Common Interface



There are pay TV services available; these are accessible with the use of a Conditional Access Module (CAM) and a subscription card. A Common Interface (CI) is the slot into which you can insert a CAM. The front of the digital receiver has two common interface slots. To watch a pay service, you should take the following steps:

1. Purchase a CAM and a subscription card for the pay service you want to watch.
2. Insert the subscription card into the CAM.
3. Insert the CAM into a common interface on the front of the digital receiver.

To view the information about the module and subscription card which is inserted into the digital receiver, select the Setting > Information > Common Interface menu.

Chapter 2

Setup

2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control unit
- Two batteries for the remote control (AAA 1.5 V)
- One HDMI cable
- A copy of Quick Guide

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 90 and 250 volts. Check it before plugging the digital receiver to the wall socket. For the power consumption of the digital receiver, refer to Table 2.1.

- The wall socket should be near the equipment. Do not run an extension lead to the unit.
- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Refer all servicing to a qualified service technician.
- To maintain proper ventilation, always leave sufficient space around the digital receiver.

Table 2.1: Power specification

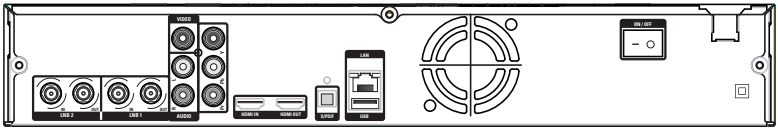
Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	60 W at maximum in active
	Under 1 W in passive standby
LNB power	13 V, 18 V, 500mA Max.

Table 2.2: Physical specifications

Size	380× 60× 265 mm
Weight(Net)	3.1 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The SRP-2300 has a wide range of connections on the back.



Check what connections your television set has in comparison with the digital receiver.

1 LNB 1 IN — Satellite broadcasting signal input socket for the first tuner
(Current: Max.500mA with overload protection)

2 LNB 1 OUT — Satellite broadcasting signal output socket through the first tuner

3 LNB 2 IN — Satellite broadcasting signal input socket for the second tuner

4 LNB 2 OUT — Satellite broadcasting signal output socket through the second tuner

5 VIDEO — Composite video output socket for the television set (yellow)

6 AUDIO L/R — Stereo audio output socket for the television set or the audio-video receiver (white/red)

7 Y/Pb/Pr — Component video output socket for the television set
(green/blue/red)

8 HDMI OUT — Audio and video output socket for the high definition television set

9 HDMI IN — Audio and video loop-through input socket for another device with HDMI interface.

10 LAN — Local area network port

11 USB — USB port for firmware update and data transfer.

12 S/PDIF OPTICAL — Optical-type digital audio output socket for the audio-video receiver

13 ON/OFF — Power switch (You have to turn on this switch first to use this digital receiver.)

Table 2.3: Connectors specifications

HDMI OUT	High definition video output
	Digital audio output
HDMI IN	High definition video input for bypass
	Digital audio input for bypass
YPbPr	Component video output
VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
S/PDIF	Digital audio output
LAN	10/100 Ethernet
USB	2.0 Host (5 V DC, 500 mA)

2.4 Connecting up your digital receiver

There are several ways to set up the digital receiver. Set up the digital receiver suitably to your television and other devices. If you have any problem with your setup or need help, contact your dealer.

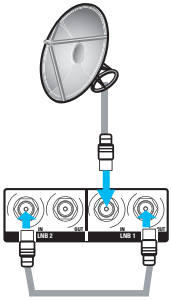
WARNING

Connect any components before plugging the power cord into the wall outlet. Always turn off the product, TV and other components before you connect or disconnect any cables.

NOTE

If you encounter any problems setting up your product, please contact your local retailer.

2.4.1 Connecting to the antenna



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the antenna so that it can receive digital television broadcasts. Connect the antenna cable to the LNB 1 IN connector on the back panel of the digital receiver.
Also, you must ensure that there is a connection to both the LNB 1 IN and LNB 2 IN connectors on your digital receiver, so that both tuners work properly.

Normally you do that by using a loop cable to link from the LNB 1 OUT connector to the LNB 2 IN connector.

If you have two antennas without DiSEqC switch, then you have to connect the cable from the other antenna directly to the LNB 2 IN connector rather than using the loop cable.

NOTE

The digital receiver can supply a current of 500 milliampere at maximum for antenna devices including LNB, DiSEqc switch and antenna rotor through each antenna input connection separately but not simultaneously. If there are too many antenna devices to be simultaneously supplied with sufficient power for a rather long time through the antenna input connections, then your antenna may lack power to operate. So it is recommended to link the LNB 1 OUT connector to the LNB 2 IN connector with a loop cable, even though the digital receiver is designed to operate independently over two antennas.

NOTE

Perhaps you are expecting that the satellite antenna could simultaneously catch all frequencies coming from a satellite and send them to the digital receiver. However, the satellite antenna only sends the frequencies that it can catch with the

LNB frequency and polarisation specified by the digital receiver. So if you have linked from the LNB 1 OUT connector to the LNB 2 IN connector, you would have some limitations in using some features such as dual recording. Likewise, if you have another digital receiver linked from the LNB 2 OUT connector, you can only use it limitedly. See §3.1 for more details.

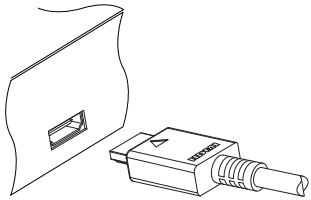
2.4.2 Connecting to your television set

For all the following connections of the digital receiver, we recommend you to use the first connector to get the best picture quality. If your television does not have a matching connector, then use the next connector in the following order for a better picture quality.

1. HDMI connector (HDMI)
2. Component connector (YPbPr)
3. Composite connector (VIDEO)

You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

To use the HDMI output



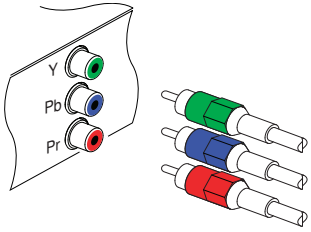
If you have a high definition television set, you should use an HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television.

HDMI loop-through via the HDMI input

The digital receiver can switch the output of an high definition video from the digital receiver to that from another HD device connected to the HDMI IN socket on the digital receiver.

You must first ensure the connection between your TV and the HDMI OUT socket on the digital receiver. And then, prepare another HDMI cable and connect it between the HDMI IN socket on the digital receiver and the matching socket on another HD device. You need to also check the HDMI bypass setting is turned on in the menu. For details, refer to §4.2.1.

To use the Component video output

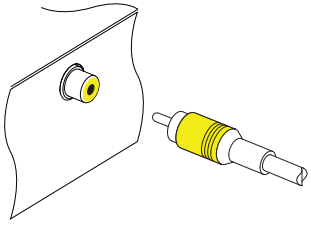


You need to obtain a Component video cable (RCA cable) to use the Component video output. Plug one ends of the cable into the Y (green), Pb (blue) and Pr (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television.

NOTE

When connecting with the Component video cable, remember to also plug in the additional white and red audio cables from the digital receiver to the back of your television.

To use the Composite video output

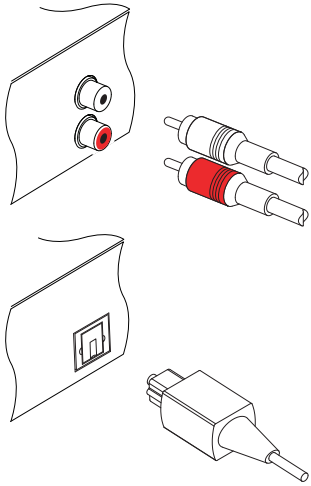


You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

NOTE

You cannot view high definition video by means of the Composite video output.

To make the audio connection



You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.

To enjoy Dolby Digital audio, your television or audio-video receiver must be able to decode Dolby Digital audio, and you need to obtain an S/PDIF cable.

Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio-video receiver.

2.5 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the ⏻ button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If you do not see a picture, try pressing the VF button on the remote control. If after several tries you still get no picture, check that the television is set to the correct input. If the picture is good, you can skip to §3.1 to search for available television

and radio services. Otherwise, you may need to temporarily connect the Composite video connector (VIDEO) to your television set so that you can see the menu in order to configure the video settings.

CAUTION

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to replace only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

Chapter 3

Service Search

After connecting up the digital receiver, you will need to perform a service search.

NOTE

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

3.1 Searching for broadcasting services

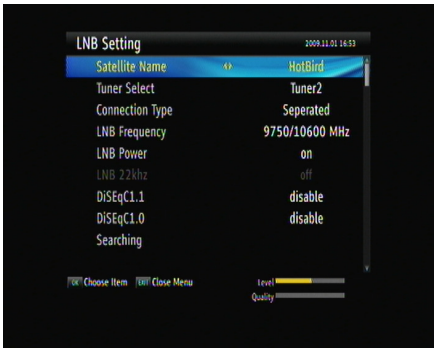
This digital receiver can be operated with both fixed antenna and motorized antenna. You have to configure antenna settings according to your antenna system in the following order:

1. Configure LNB settings. Refer to §3.1.1.
2. Perform a service search.

3.1.1 Configuring LNB settings

There are two large frequency bands for satellite broadcasts. One is C band which ranges approximately from 4 to 6 GHz. The other is K_u band which ranges approximately from 12 to 18 GHz.

The LNB (Low Noise Block converter) is used to take a wide band of relatively high frequencies, amplify and convert them to similar signals that is carried at a much lower frequency, which is called Intermediate Frequency (IF). High frequencies from satellites are converted into 950 to 2150 MHz by a LNB.



Select the Setting icon. Go to Installation > LNB Setting menu to configure the LNB settings. You should see a screen like the left figure.

Pressing the OK button on the Satellite Name option displays the satellite list in alphabetic order. Select the satellite toward which your antenna is set to face. Even if you cannot find your desired satellite, you can add your desired satellite to the satellite list. See §3.2 for a detailed description.

You have to specify which tuner is connected to your selected satellite. If it is LNB 1 IN, set the Tuner Select option to Tuner 1; otherwise, set it to Tuner 2.

If you have connected the LNB 1 OUT and LNB 2 IN with a loop-through cable, then set the Connection Type option to Loop Through; otherwise, set it to Separated.

NOTE

Both the LNB 1 IN and LNB 2 IN sockets should be connected to your antennas either directly or via the loop-through cable. If you have connected only one socket, some features such as dual recording will not function.

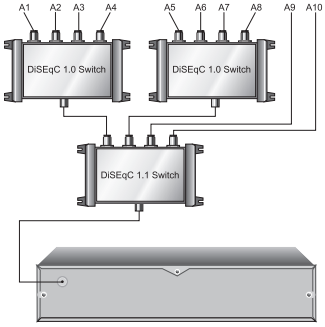
The digital receiver has a database of broadcasting satellites and their transponders, containing the following information: satellite position, frequency range, symbol rate, polarization and LNB frequency corresponding to the frequency range. So you might not have to specify the LNB Frequency option. However, if you have selected the Other entry at the Satellite Name option to specify a satellite that is not in the satellite list, you might have to fill in the correct LNB frequency. The absolute difference between a broadcasting frequency and its LNB frequency must be within 950 to 2150 MHz. For example, if the frequency band of your desired satellite ranges from 3660 to 4118 MHz, you have to set the LNB Frequency option to 5150 MHz.

The LNB has to be supplied with electric power to operate. Set the LNB Power option to On if it does not have any other power supply.

If you use a dual LNB or two antennas which is connected to the 22 kHz tone switch box, set the 22 kHz option to On.

The digital receiver is designed to be compatible with DiSEqC (Digital Satellite Equipment Control) switches. It is possible to connect several antennas to one digital receiver by DiSEqC switches. A DiSEqC 1.0 switch allows switching between up to four satellite sources and a DiSEqc 1.1 switch allows switching between up to 16 satellite sources.

Set the DiSEqC 1.0 option and the DiSEqC 1.1 option according to your antenna configuration.



For example, to select the antenna connected to the A5 input in the left figure, set the DiSEqC 1.1 option to 2 of 4 and the DiSEqC 1.0 option to 1 of 4. If you have a mini DiSEqC 1.0 switch which has only two inputs, you should set the DiSEqC 1.0 option to Mini A instead of 1 of 4.

3.1.2 Searching for services

To perform a service search, select the Installation > Searching menu. You should see a screen like the left figure.

There are in general four service search methods:

- searching every service of a satellite,
- searching every service of a transponder,

Searching every service of a satellite

To search every service of a satellite, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Set the Search Mode option to Auto.
3. If you set the Network Search option to On, the digital receiver will check up the up-to-date channel informa-

tion while searching services, but it takes a rather longer time.

With the Auto mode, the digital receiver tries to search every service, relying on the transponder data which is stored at the time of manufacture. It thus may happen to fail to search all actually available services since services are more often than not launched, discontinued, or removed into another transponder.

Searching every service of a transponder

To search every service of a transponder, take the following steps:

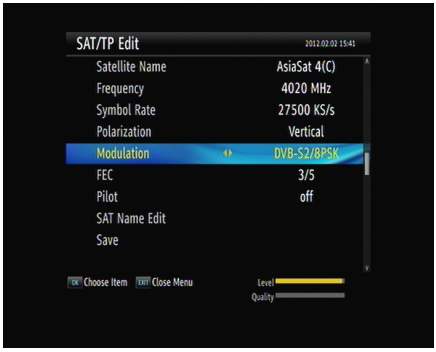
1. Choose your desired satellite at the Satellite Name option.
2. Set the Search Mode option to Manual, and then press the OK button to diaply additional options.
3. Choose your desired transponder at the Frequency option or enter it with the numeric buttons.
4. Enter the symbol rate of your desired transponder to the Symbol Rate option with the numeric buttons.
5. Set the Polarization option to match to that of your desired transponder.
6. If you set the Network Search option to On, the digital receiver will check up the up-to-date channel information as searching services, but it takes rather longer time.
7. Set the Modulation option to match to that of your desired transponder. If the transponder is of the DVB-S2 standard, you should set this option to DVB-S2 QPSK or DVB-S2 8PSK. Then the FEC option and the Pilot option will become enabled. You also should set these options correctly.

NOTE

You may get transponder information from a satellite magazine or website such as http://www.satbeams.com or http://www.lyngsat.com.

To start service search, move down to the Start Search item, and press the OK button. The digital receiver will start to search for services and display a list of television and radio services as they are found. It is common for no channels to be found until quite late in the process. When the scan is complete, you will see a message telling you how many services have been found. Press the OK button to save the list.

3.2 Editing the transponder list



If you failed to receive services of a transponder because it consists of wrong data, you can solve it by correcting the data. Select the Installation > SAT/TP Edit menu. To change the data of a transponder, take the following steps:

1. Choose your desired satellite at the Satellite Name option.
2. Choose your desired transponder at the Frequency option.
3. Change the Polarization option to match to that of your desired transponder.
4. Set the Modulation option to match to that of your desired transponder. If the transponder is of the DVB-S2

standard, you should set this option to DVB-S2 QPSK or DVB-S2 8PSK. Then the FEC option and the Pilot option will become enabled. You also should set these options correctly.

5. To change a satellite entry's name, select your desired entry at the Satellite Name option and select the SAT Name Edit option. Then the on-screen keyboard appears. Change the name and save it. See §6.3 as to how to use the on-screen keyboard.
6. Select the Save option and press the OK button to save the changes. To stop at any time or to exit without saving, press the EXIT button.

3.3 Resetting to factory settings

The digital receiver maintains the following data:

- Satellite list
- Services list
- Favourite list
- Timer list
- Preference settings

You can reset all data of the digital receiver. Select the Installation > System Recovery > Factory Setting menu, and then you get asked for confirmation. With the choice of Yes, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

NOTE

A factory reset will not delete any recorded programmes. However, you have to search services again after a factory reset.

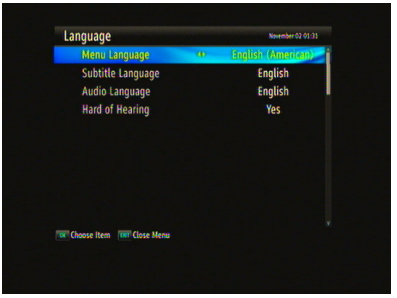
3.4 Clearing the services list

If you only want to clear the services list, select Installation > System Recovery > Reset Service List , then you get asked for confirmation. With the choice of Yes, the services list will be cleared. After this, you have to do service search again.

Chapter 4

Preference Settings

4.1 Language settings



You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the Setting > Language menu. You should see a screen like the left figure.

4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the Menu Language option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

4.1.2 Subtitle language

Set the Subtitle Language option to your desired language. When you watch a programme, the subtitle track of the se-

lected language will be displayed if available.

Apart from this setting, you can select a subtitle track with the button. See §5.2.5 for a detailed description.

4.1.3 Hard of Hearing

Some broadcasters may send a subtitle track dedicated to the hard-of-hearing. Even when a subtitle track or more is available, that subtitle track will be displayed prior to those you have specified for the 1st Subtitle Language and the 2nd Subtitle Language options if the Hard of Hearing option is set to On.

4.1.4 Audio language

Set the Audio Language option to your desired language. When you watch a programme, the audio track of the selected language will be output if available.

Apart from this setting, you can select an audio track with the button. See §5.2.4 for a detailed description.

4.2 Video and audio settings

You have to configure the video and audio settings appropriately for your television set and other devices. Select the Setting > A/V Output menu. You should see a screen like the left figure.

4.2.1 High definition television

The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

Set the Video Format option as you desire. If you set this option to 576P, the digital receiver will present even high definition programmes in resolution of 576. On the contrary, if you set it to 1080I, the digital receiver will present even standard definition programmes in resolution of 1080.

It is recommended to set it to Original Format if you have a high definition television. With that setting the digital receiver will present a programme as it is without any resolution conversion. While watching television you can change the resolution with the VF button. Whenever you press it, the video resolution is changed in turn.

If you have another HD device connected to the HDMI IN port on the digital receiver, set the HDMI bypass menu to On. With this setting, whenever you press the HDMI Bypass button on the remote, the digital receiver will switch the ouput of the HDMI socket over between the digital receiver and the connected HD device onto your HDTV screen.

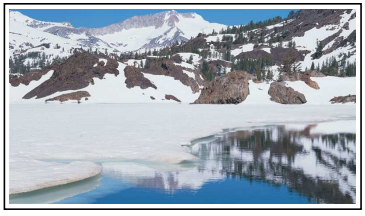
NOTE

You can enjoy only standard definition video with the following video outputs:

- Composite video output (VIDEO)

4.2.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

4.2.3 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the Sound Mode option as you desire.

Apart from this setting, you can change the sound mode with the [?] button. See §5.2.4 for a detailed description.

The digital receiver can output two types of digital audio signals via the S/PDIF output. One is an encoded signal, and the other is a decoded signal. If you have the digital receiver linked to your audio-video receiver via the S/PDIF output, you have to set the Dolby Digital option to PCM, which means that the digital receiver will output encoded Dolby Digital audio without decoding so that your audio-video receiver can decode it. Otherwise, set it to multi-channel, then the digital receiver will output decoded Dolby Digital audio, scaling it down to two channels.

NOTE

Only if the service you are currently watching provides a Dolby Digital audio track, you can enjoy Dolby Digital sound.

4.3 Local time setting

You should set your local time for timer events. If you do not set the local time correctly, the programme time table provided by the programme guide may be distrustful. For the programme guide, refer to §5.4.

Select the Setting > Time menu. You should see a screen like the left figure. You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast. To use Greenwich Mean Time, take the following steps:

1. Set the Mode option to Auto, then the Time Offset option becomes enabled.
2. Set the Time Offset option to the time difference between your time zone and GMT referring to Table 4.1.
3. Make sure that your local time is correctly displayed on the Local Time item.

To set the local time manually, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-hour:minute*. To change the time format to 12-hour format, set the Time Format option to 12 Hours.

If daylight saving time is observed in your state at the moment, set the Daylight Saving Time option to On.

NOTE

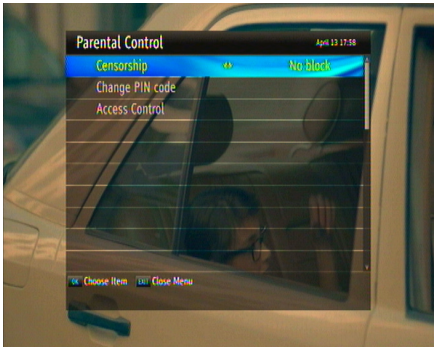
Daylight saving time adds one hour to the time when the option is set to On. When setting the time offset from Greenwich Mean Time, make sure that time offset does not include daylight saving time.

Table 4.1: Time offset table

Time offset	City
GMT − 12:00	Eniwetok, Kwajalein
GMT − 11:00	Midway Island, Samoa
GMT − 10:00	Hawaii
GMT − 09:00	Alaska
GMT − 08:00	Pacific Time US, Canada
GMT − 07:00	Mountain Time US, Canada
GMT − 06:00	Central Time US, Canada, Mexico City
GMT − 05:00	Eastern Time US, Canada, Bogota, Lima
GMT − 04:00	Atlantic Time Canada, La Paz, Dominican Republic
GMT − 03:30	Newfoundland
GMT − 03:00	Brazil, Georgetown, Buenos Aires
GMT − 02:00	Mid-Atlantic
GMT − 01:00	Azores, Cape Verde Islands
GMT	London, Lisbon, Casablanca
GMT + 1:00	Paris, Brussels, Copenhagen, Madrid
GMT + 2:00	South Africa, Kaliningrad
GMT + 3:00	Baghdad, Riyadh, Moscow, St. Petersburg
GMT + 3:30	Tehran
GMT + 4:00	Abu Dhabi, Muscat, Baku, Tbilisi
GMT + 4:30	Kabul
GMT + 5:00	Ekaterinburg, Islamabad, Karachi, Tashkent
GMT + 5:30	Bombay, Calcutta, Madras, New Delhi
GMT + 6:00	Almaty, Dhaka, Colombo
GMT + 7:00	Bangkok, Hanoi, Jakarta
GMT + 8:00	Beijing, Perth, Singapore, Hong Kong
GMT + 9:00	Tokyo, Seoul, Osaka, Sapporo, Yakutsk
GMT + 9:30	Adelaide, Darwin
GMT + 10:00	Eastern Australia, Guam, Vladivostok
GMT + 11:00	Magadan, Solomon Islands, New Caledonia
GMT + 12:00	Fiji, Auckland, Wellington, Kamchatka

4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box. For the information box, see §5.2.3. You can prevent your children from watching specific programmes by specifying a maximum permissible level.



Select the Setting > Parental Control menu. You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN). The number is initially set to '2010' as default.

If you wish to block programmes for viewers aged 15 or above, set the Censorship option to 15 (age). Setting it to No block blocks no programme; on the other hand, setting it to Total block blocks every programme.

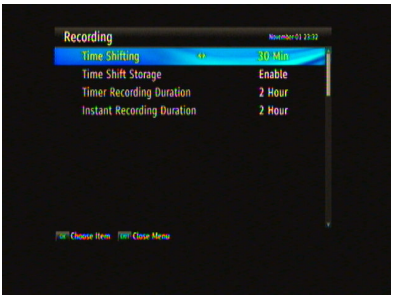
NOTE

If a programme has no rating information, your censorship setting will not take effect.

If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the personal identification number to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. Enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the Time item is set to Locked, you have to enter the PIN when accessing the Time menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

4.5 Options for recording



To set the options for recording, select the Setting > Recording menu. You should see a screen like the left figure.

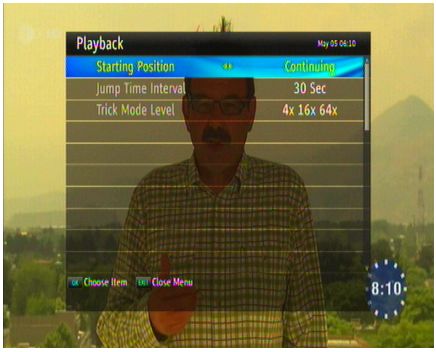
To enable the time-shift function, you should set the Time Shifting option to anything other than Disable. The available range for this option is 30 minutes to 5 hours. You will have the latest of the current programme as long as the duration specified at this option.

If you set the Time Shift Storage option to Enable, the time-shifted programme will be saved in the TimeShift folder of the hard drive.

You can set the duration of the timer recording. Set the Timer Recording Duration option as you desire. Its available range is 10 minutes to 3 hours.

You can adjust the duration of the instant recording. Set the Instant Recording Duration option as you desire. Its available range is 30 minutes to 5 hours.

4.6 Options for playback



To set the options for playback, select the Setting > Playback menu. You should see a screen like the left figure.

If you want to play back a recorded file from beginning, set Starting Position option to Beginning. To play back a recorded file from the part where you were watching, set this option to Continuing.

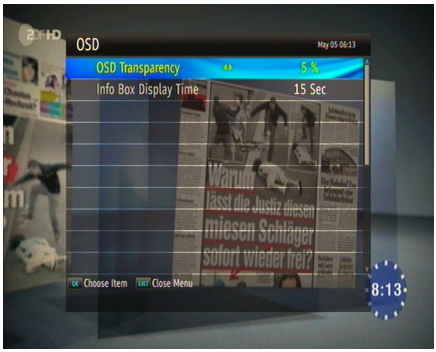
You can adjust the jump interval that is for playback. Set the Jump Time Interval option as you desire. Its available range is 10 seconds to 3 minutes.

If you want to enjoy more levels of playback speed, set the Trick Mode Level option to 2x, 4x, 8x, 16x, 32x, 64x; otherwise, set it to 4x, 16x, 64x.

NOTE

You can enjoy video files such as DivX with the digital receiver. However, the above options might not be effective depending on the video files to be played. For detailed description on how to play back a video file, refer to §8.6.

4.7 Options for on-screen display



To set the options for the on-screen display (OSD), select the Setting > OSD menu. You should see a screen like the left figure.

To adjust the transparency level of the OSD, set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

To adjust the display time of the information box, set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services. However, pressing the [i] button will display the information box. If you set this option to Never Hide, the information box will always be displayed. For the information box, see §5.2.3.

4.8 Options for standby mode

You can have the current time displayed on the front display in standby mode. Select the Setting > Others menu and set the Standby Mode option to Active; otherwise, set it to Passive. When you set the Standby Mode option to Active, the receiver can also bypass the signal from the antenna. To save power consumption, you might as well set the Automatic Power Down option to Enable. With this option enabled, the receiver will be turned off automatically when there is no manipulation over three hours.

Chapter 5

Every Day Use

5.1 Volume control

Use the VOLUME− and VOLUME+ buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the CHANNEL∨ or CHANNEL∧ button. Pressing the button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

5.2.1 The services list

To view the services list, press the LIST button.

On the services list, you can see the service information as follows:

- Service number and name
- Transmitting satellite
- Receiving tuner: T1 stands for the first tuner; T2 stands for the second tuner.
- Multiplex information

A dollar sign (**$**) may be marked on some entries, indicating pay service. To watch pay services, you need a subscription card.

To select a desired service, put the highlight bar on its entry with the ▲ or ▼ button and press the OK button, then the selected service will be presented.

Pressing the ◀ or ▶ button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the button.

Pressing the button performs an alphabetic browse. For instance, when the highlight bar is on an entry of which initial is B, pressing the button puts the highlight bar on the first entry of which initial is C.

Pressing the Option button displays additional options, with which you can do the following:

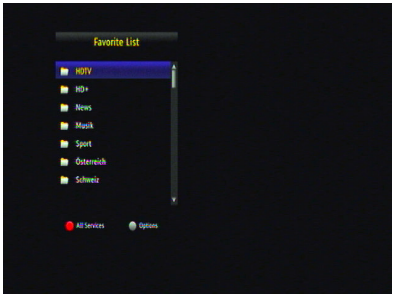
- To change the name of the highlighted service, select the Rename option, then appears the on-screen keyboard with which you can enter a new name. See §6.3 as to how to use the on-screen keyboard.
- You can prevent other family members from watching the highlighted service by setting the Lock option to

Locked. You have to enter your personal identification number to watch or unlock it.

- To add the highlighted service into a favourite group, select the Add to Fav option, then the favourite groups will be displayed. Put the highlight bar on a desired group and press the OK button.

5.2.2 The favourite service lists

You can select a service on a favourite list as well as on the services list.



To display the favourite lists, press the button at the services list screen. For the services list, see §5.2.1.

To select a favourite list, put the highlight bar on a desired favourite group list and press the OK button, then the selected favourite group's services will be listed.

As to how to edit the favourite lists, refer to §6.2.

To select a favourite service, put the highlight bar on a desired service and press the OK button, then it will be displayed. To select another group, press the button.

After you have selected a favourite service, if you then switch to another service using the ▲ or ▼ button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name at the top right of the screen whenever you switch services.

To return to the services list, press the button. Besides that, you can add or delete a favourite group or service. To add a new favorite group, press the Option button to display additional options, and then select Add New Favorite Group. To add the service you are currently watching into a favourite group,

press the Option button to display additional options, and then select Add this service item.

To remove the currently highlighted favourite grop or service, select Delete item in the additional option box, then you get asked for confirmation; with the choice of Yes, it will be removed.

5.2.3 Viewing programme information

Pressing the i button displays the information box, on which you can see all of the following:

- Service number and name
- Transmitting satellite
- Receiving tuner
- Transponder information
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol (▭) if subtitle tracks are provided on the current programme.
- Teletext symbol (☰) if teletext pages are provided on the current service.
- Dolby Digital symbol (◧◧ D) if a Dolby Digital audio track is provided on the current programme.
- Lock symbol (🔑) if the current service is locked.
- Dollar symbol (**$**) if the current service is a pay service.
- Multifeed symbol (🗗) if the current programme is provided as a multifeed programme. To use this feature, refer to §5.5.

Pressing the [i] button once more displays detailed information about the current programme. To hide the information box, press the [EXIT] button.

5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the [🔊?] button displays available audio tracks. Once you select an audio track, that track will be heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right. However, if a multifeed programme is provided at the moment, video tracks will be displayed. In this case, you have to press the [🔊?] button once more to select an audio track.

5.2.5 Selecting subtitle tracks

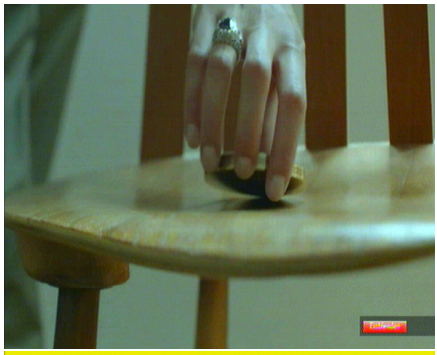
Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol ([—]) will be marked on the information box. Pressing the [💬] button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

5.2.6 Viewing teletext

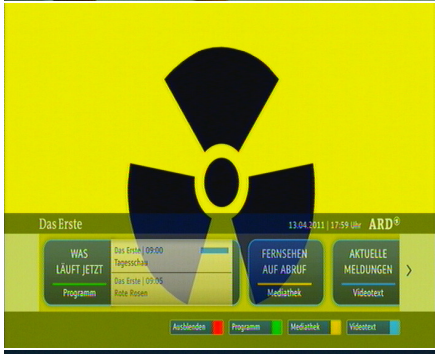
On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol ([≡]) will be displayed on the information box. Press the [≡] button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the 🟡 button, and adjust its transparency level with the 🔵 button. To clear the teletext screen, press the [EXIT] button.

5.3 Red Button Service (HbbTV)



When you select a service which includes the broadcast-related applications, the red button image will appear on the screen. The red button image and available applications may vary by the service you tune in.



Pressing the red button ( ) on your remote displays live-streaming (via the broadcast or the broadband) applications on the launch bar.

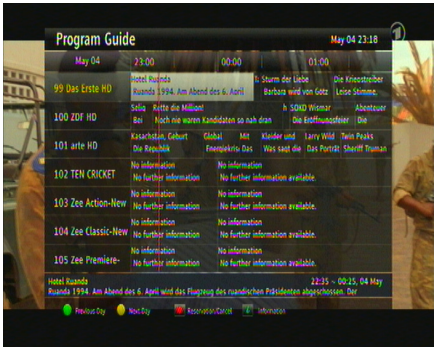
The applications may include the programme information, the programme guide, TV catch-up services, etc.

Browse a desired application with the navigation buttons and press OK. The left figure shows an example of the selected application.

You may see different colour buttons available for you to make different controls within an application. To exit the application, press the EXIT or the button.

5.4 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.



Pressing the GUIDE button displays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the ◀ or ▶ button and press the i button. To switch to another service, press the ▼ or ▲ button.

You can travel over previous days with the button, and can travel over next days with the button.

You can make a timer recording on the electronic programme guide. See §7.1.3 for detailed description.

5.5 Watching multifeed programme

Some broadcasts such as sports channels can provide a variety of perspectives on a programme at the same time. We call it a multifeed programme. You can select and watch a perspective you prefer.

If a multifeed programme is provided on the current service, the multifeed symbol ( ) will be marked on the information box. Press the button, then available video tracks will be listed. Once you select one, it will be presented. At this time,

you have to press the [?] button once more to select audio tracks.

5.6 Using time-shift

You can pause and resume a live television programme, and even rewind and replay it. When you are watching a programme and you miss something, you can rewind and replay it. Or when your attention is needed elsewhere, you can pause a live TV and resume a short time later without losing any of the programme.

When you do this, you are no longer watching the live programme, instead you are watching a delayed presentation. This is called time-shifted television. You can skip commercials until you catch up to the live broadcast.

In order to use the time-shift feature, set the Time Shifting option to desired duration of time. Then the digital receiver will archive the programme as much time as you set in the option. See §4.5.

The time-shift will be reset each time you change to another service. With the time-shift, the following operations are possible:

- To go back in time, hold down the [◀◀] button; to go forward, hold down the [▶▶] button. The progress bar is displayed momentarily with a preview window.
- You can navigate using the progress bar, refer to §7.3.1.

- You can jump backward and forward by pressing the ◀ and ▶ buttons. You can change the jump time at the Jump Time Interval option. See §4.6.
- You can change playback speed. See §7.3.2 for slow motion. For fast motion, see §7.3.3.
- To check your current position in time-shift, press the [i] button. The time difference compared to live programme is displayed momentarily in top right corner of the screen. A value of −02:00 means two minutes behind the live programme.
- To make a recording of the time-shifted programme,, see §7.1.4.
- To end time-shift, press the ■ button. The live programme will be displayed.

NOTE

You can adjust some options for time-shift. Refer to §4.5.

Chapter 6

Organising Services

6.1 Editing the services list

You would have got the services list after service search. You can rename, move, lock or delete service entries on the services list.

Select the Setting > Installation > Edit Services menu and select Edit Service List menu. You should see a screen like the left figure. There are editing options on the left column and service entries on the right column.

Once you put the highlight bar on a desired option on the left column and press the OK button, you can select a desired service to edit on the right column. To go over to the other column, press the button.

To edit the radio services list, press the button, then radio service entries will be listed on the right column. To switch back to the television services list, press it again.

To change the name of a service, select the Rename and select a desired service; then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

Unlike analogue broadcasts, each service does not have a proper service number in digital broadcasts. Service numbers are just assigned to services in the order that they were found in service search. So you can reassign a service number by moving a service entry. To move a service entry, select the Move option and select a desired service; then the selected service becomes darker. As you move it up or down, it gets renumbered according to the position. Press the OK button to fix it.

You can lock some services to prevent your children from watching them. To lock a service, select the Lock option and select a desired service; then the selected service gets marked with a lock symbol (🔑) on it. If anyone tries to watch a locked service, the person has to enter the personal identification number that is set to the Change PIN Code option. See §4.4 for this option. Pressing the OK button on a locked service entry turns it back to be unlocked.

To delete a service, select the Delete option and select a desired service with the OK button, and then press the EXIT button; you get asked for confirmation. If you select Yes, the selected service will be deleted. If you want to undo the deleted service, there is nothing you can do but perform a service search again.

Once you select the Sort option on the left column, sorting options are displayed as follows:

Default by service number
Alphabetic by service name
Satellite by satellite
FTA–CAS from free services to pay services
CAS–FTA from pay services to free services
Fav–NoFav from favourite services to unfavourite services
Provider by broadcaster
Transponder by transponder

6.2 Editing the favourite lists

You can make your own favourite service lists. In fact, you can define multiple favourite service lists, each being a 'group' of chosen services.

Select the installation > Edit Services > Edit Favorite List menu. You should see a screen like the left figure. There are three columns:

- Group name (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourites list.

You can add up to 30 groups. To add a new group, select the NEW item in the group list, then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the button, then a message box appears, asking you for confirmation. With the choice of Yes, it will be deleted.

You can add a favourite service to a group by taking the following steps:

1. Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.

2. To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.
3. Press the button, and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.
4. To select another group, press the button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the button. Press the ◀ and ▶ buttons or ▲ and ▼ buttons to move it to a desired place and press the OK button. To add radio services, press the button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

6.3 How to use on-screen keyboard

You can move the highlight key horizontally with the ◀ and ▶ buttons and vertically with the ▲ and ▼ buttons. Pressing the OK button on a key enters its letter in the input line. To type a space, select the Space key. To type lower case letters or numerals, select the Shift key.

To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key. You must select the Save key to store the name; otherwise if you press the EXIT button, the name will not be stored.

Chapter 7

Recording and Playback

This recorder can record four channels simultaneously, however, this is controlled by the channel frequency. Each channel has other programmes under the one frequency. This recorder can record four programmes locked on two channel frequencies simutaneously. Whilst recording the above combination of programmes you can also playback a pre-recorded show.

7.1 Recording a programme

Once a recording gets started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds.

When you are watching a different service from the service being recorded, you will see a number on the centre of the symbol, this indicates the order that the recording has started. When you record two different channels from two different stations, what you are actually doing is locking each tuner to two separate station bandwidths.

For example, if you record channel A and channel B, you have locked the first tuner into all the channels from A which includes: A-1, A-2, A-3 and A-4. While on the second tuner you

have locked in all the channels from B which includes: B-1, B-2 and B-3.

With this in mind, while the above two channels (eg. A-1 and B-1) are being recorded, you can watch a third channel which can be only one of the following: A-2, A-3, A-4, B-2 or B-3.

The same can be said for recording for four channels (eg. A-1, A-2, B-1 and B-2). You can watch an additional channel which can be only one of the following: A-3, A-4 or B-4.

CAUTION

Do not move the digital receiver nor pull out the power plug while it is running. It may cause damage to recorded programmes. Topfield is not responsible for damages inflicted on files that are stored on the hard drive.

7.1.1 Instant recording

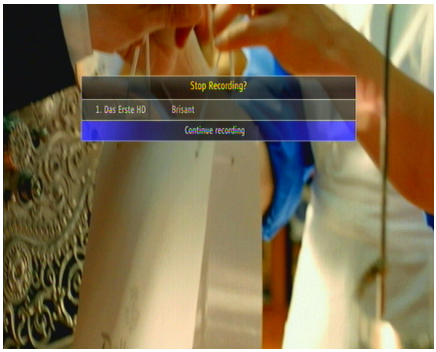
To instantly record a programme you are watching at present, press the ● button.

Pressing the ❚❚ button will not pause the current recording like it does with a video recorder. Instead, pressing the ❚❚ button will pause the live show and begin time-shifting within the current recording even with the Time Shifting option disabled. In short, it is still possible to pause a recording, but literally recording continues in the digital receiver.

After a recording has started, pressing the ● button displays a menu like the left figure, in which you can set the recording duration.

To specify an arbitrary recording duration, set the Duration option as you desire with the ◀ and ▶ buttons and press the OK button; the recording will end at the specified time.

If the information about the next programme is provided by the electronic programme guide, the After this program and After next program options will be enabled. Once the After this program option is selected, the current recording will stop at the time when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop at the time when the next programme is scheduled to end.



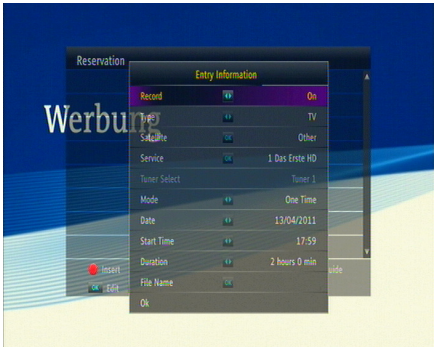
To stop recording, press the ■ button; then a box like the left figure appears, which shows the programmes currently being recorded. Select recording by using navigation buttons then press OK button to stop the recording.

While a recording is going on, you can watch or record another service. To additionally record another service, switch to the service you want to record, and press the ● button. Once a recording is started, it is put on the recorded programme list even though it is not finished yet. The recording file is named the program name if available or after its service name with a suffix of a number. To view the recorded programme list, select the Recording > Recorded Program menu. See §7.2 for detailed description about the recorded programme list.

7.1.2 Timer recording

You can set a programme to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch

into active mode and start recording at a specified time. When the recording comes to the end, the digital receiver will switch back into standby mode again in one minute. However, if you press any button on the remote control or on the front panel even just one time, the digital receiver will not switch into standby mode.



To add a timer recording, select the Recording > Reservation menu, then the timer list will be displayed. To add a new timer event, press the button, and a box like the left figure appears. Take the following steps:

1. Set the Record option to On to make a recording. If this option is set to Off, the digital receiver will turn on at the specified time but not record; instead, you may record with your video recorder or suchlike in this case.
2. You may have two sources for recording, TV and radio. Set the Type option to your desired source.
3. Set the Satellite option to the satellite which transmits the service you want. Pressing the OK button on this option displays a satellite list, from which you can select your desired satellite. Set the Tuner Select option to a tuner to receive your desired service.
4. Set the Service option to the service which provides the programme you want. Pressing the OK button on this option displays a services list, from which you can select your desired service.
5. Set the Mode option as you desire. There are five timer modes:

One Time means literally 'one time'.
Every Day means literally 'every day'.
Every Weekend means 'Saturday and Sunday every week'.
Weekly means 'one day every week'.
Every Weekday means 'from Monday to Friday every week'.

If your favourite programme is broadcast at weekends and you wish to record every episode of the programme, set the Mode option to Every Weekend.

6. Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year-day of the week*.

   Set the Start Time option to a desired time, at which the recording will be started. The time format is *hour:minute*.

7. Set the Duration option to a desired time, in which the recording will be finished.

8. Pressing the OK button on the File Name option displays the on-screen keyboard, with which you can specify a file name for the timer recording. If you do not specify anything, it will be named after the service name. See §6.3 as to how to use the on-screen keyboard.

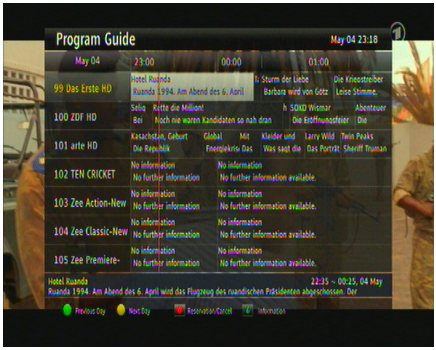
9. To set a recording reservation with the above settings, select the OK item; otherwise, it will not be saved and will not occur.

You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and press OK button; then appears a box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the button, then you get asked for confirmation. With the choice of Yes, it will be deleted. To delete all timer event, press the button.

You can sort timer events by time with the button.

7.1.3 Scheduling recordings using the programme guide



If the electronic programme guide is properly provided, you can make timer events on it. The instructions on how to make timer recordings using the electronic programme guide are as follows:

1. Press the GUIDE button to display the electronic programme guide.
2. Select a programme you want to record with the navigation buttons.
3. To make a timer event with recording, press the ● button, then the red symbol is displayed.
4. Pressing the ● button again will display additional setting options for the reservation.
5. Pressing the ● button once more will cancel the timer.

7.1.4 Recording a time-shifted programme

While watching a programme with time-shift, you can record it by performing the following steps:

1. Press the ▶ button to display the progress bar.
2. To move to the beginning of the desired scene, hold down the ◀ or ▶ button until it is reached.
3. Press the ● button to start recording. The time-shift buffer from that position onwards will now be recorded.
4. Press the ■ button to stop recording.
5. Press the ■ button once more to stop time-shift.

See §5.6 for detailed description about the time-shift feature.

7.1.5 Recording a pay service programme

You can record a pay service programme without the subscription card. However, you need the subscription card to play it back because it has not been descrambled. So it is recommended to record pay service programmes with a proper subscription card so that they can be descrambled and recorded. In that case, you can enjoy them without the subscription card like free services.

To record a programme of a pay service in descrambled form, take the following steps:

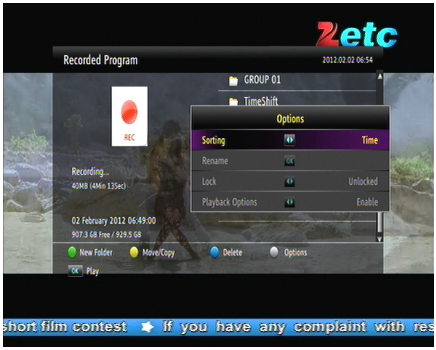
1. Select a programme of a pay service you want to record.
2. Make sure that the subscription card is inserted in the slot on the front of the digital receiver.
3. Start recording.
4. Do not switch to other service nor use time-shift until recording is finished.

NOTE

If you switch to other service or use time-shift in the middle of recording a pay programme, it will be recorded without descrambling from that moment. Even if the recording is only partially descrambled, you need the subscription card to play it back.

7.2 File archive

When a programme is recorded, it is stored as a file on the hard drive of the digital receiver. You can select a recording to play back from the recorded programme list.



Select the Recording > Recorded Program menu to display the recorded programme list. The file information is comprised of the following elements: file number, file name, recording time, running time, file size and so on.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, running time or file size. In addition, you can make a new folder.

7.2.1 To delete a recording

To delete a recording, put the highlight bar on it and press the ✓ button, then you get asked for confirmation. With the choice of Yes, it will be deleted.

7.2.2 To sort recordings

To sort the recordings, take the following steps:

1. Press the Option button to display additional options.
2. Set the Sorting option to Alphabetic, Time or Size as you want.
3. Press the EXIT button.
4. They will be sorted by the specified option.

7.2.3 To lock a recording

To lock a recording so that other persons cannot play or delete it, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the Option button to display additional options.

3. Set the Lock option to Locked.
4. Press the EXIT button.
5. The lock symbol ( ) is displayed on it.

If you select a locked recording to play it back, you will be asked for your personal identification number.

7.2.4 To rename a recording

To change a recording's name, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the Option button to display additional options.
3. Select the Rename option, and the on-screen keyboard appears. Change the name and save it. See §6.3 as to how to use the on-screen keyboard.

7.2.5 To make a new folder

To make a new folder, press the button, then a new folder named GROUP # is created. You can change its name in the same manner as renaming a recording. See above.

7.2.6 To move a recording to another folder

To move a recording to another folder, put the highlight bar on a desired recording and press the button. Once you choose a folder, the recording is moved to it.

7.3 Playing back a recording

When a programme is recorded, its additional contents such as audio track or subtitle track are also recorded together. So you can enjoy them while playing back a recording.

The instructions on how to play a recording are as follows:

1. Select the Recording > Recorded Program menu to display the list of recorded programmes.

2. Put the highlight bar on a desired recording and press the OK button, then an option box pops up.
3. To play from beginning, set the Starting Position option to Beginning; to play from the point that you have stopped at the last time, set it to Continuing. To start playback, select the Play item.
4. To stop playback, press the ■ button.

During playback, you can enjoy the following tricks:

- To see the detailed information about the currently played recording, press the *i* button; then the information box appears and shows its file name, running time, programme information, and so on.
- To pause playback, press the ❚❚ button. To resume it, press the ▶ button.
- To view the progress bar, press the ▶ button; to hide it, press the ▶ button again.
- When the progress bar is hidden, you can move to a desired scene by entering a progress percentage with the numeric buttons.

7.3.1 To navigate using the progress bar

First press the ▶ button to display the progress bar.

- To go forward, hold down the ▶ button; to go backward, hold down the ◀ button.
- If there are no bookmarks, you can jump forward by the minute set to the Jump time Interval option with the button. See §4.6 for that option. Refer to §7.3.4 as to how to bookmark a position.
- To jump to the beginning, press the |◀ button.
- To jump to the end, press the ▶| button.
- To hide the progress bar, press the ▶ button again.

7.3.2 To play in slow motion

To watch in slow motion during a playback, press the ▶| button. If you press it repeatedly, the playback speed changes in 4 steps: 1/2, 1/4, 1/8 and 1/16 times. To resume normal speed, press the ▶ button.

7.3.3 To play in fast motion

To watch in fast motion during a playback, press the ▶▶ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can play not only forward but also backward in fast motion. To play backward, press the ◀◀ button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the ▶ button.

You can change the playback speed in 3 steps (4, 16 and 64 times) or in 6 steps (2, 4, 8, 16, 32 and 64 times). See §4.6.

7.3.4 To make a bookmark

You can mark favourite parts of a recording by creating bookmarks and then jump to them in sequence. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, take the following steps during playback:

1. Press the ▶ button to display the progress bar.
2. To add a bookmark, press the button at a desired scene, then you will see a small pointer appear above the progress bar like in the picture above.

3. To jump forward to the next bookmark, press the button.

7.3.5 To play back a recording repeatedly

You can play back a recording repeatedly both in whole and in part.

To play back in whole, press the button when the progress bar is hidden, then the repetition symbol ( ) is displayed on the information box. To cancel it, press the button again.

To play back in part, take the following steps:

1. Press the button to display the progress bar.
2. Move to the beginning scene of the part you want to play repeatedly by holding down the ◀ or ▶ button.
3. Press the button, then the pointer starts to blink.
4. Move to the end scene; the selected part is marked in black.
5. Press the button again to start repeated playback.
6. To cancel it, press the button when the progress bar is displayed.

7.3.6 To play back a scrambled recording

If you have recorded a programme of a pay service with the subscription card, you can play it as freely like that of a free service. Otherwise you need the subscription card to play it back because it has been recorded without descrambling even though it may have been partially descrambled.

On the recorded programme list, a purely green **$** indicates the recording has been wholly descrambled; on the other hand, a yellowish green **$** indicates it has been partially descrambled, and a purely yellow **$** indicates it has not been descrambled at all.

7.4 Copying a recording

You can record the file in whole or in part during a playback by performing the following steps:

1. Start playback of a recording you want.
2. Move to a scene from which you want to start copying by holding down the ◀ or ▶ button.
3. Press the ● button, then it will be copied in a new file which is named after the original recording with a suffix of 'COPY' and a number.
4. To stop copying, press the ■ button.

7.5 Formatting the hard disk

You can delete permanently all contents stored in a hard drive by formatting it. Select the Installation > System Recovery > Format Hard Disk menu. With pressing the OK button, you get asked for confirmation. Formatting will start with the choice of Yes.

Chapter 8

Entertainment portal

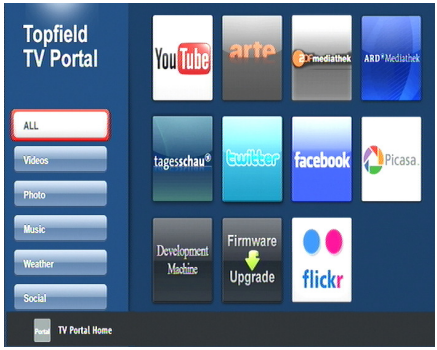
This digital receiver provides several special features for entertainment.

NOTE

To fully enjoy all of the features described in this chapter, you had better configure the network settings properly. As to how to configure the network settings, refer to §9.2.

8.1 Topfield TV Portal

With your digital receiver connected to the home broadband network, you can access to various web services including video and photo sharing services, catch-up services, social network services, etc in Portal menu.



To enter Portal, press the Portal button on the remote control. Alternatively you can press the MENU button and select Portal icon, then the Portal screen appears as shown in the left figure.

Use the ▲ and ▼ buttons to select a desired service category among All, Videos, Photos, Music, Weather and Social and press the OK button. Web services in the selected category are displayed on the right.

Press the ▶ button to move onto a desired web service. To enter the selected web service, press the OK button.

To exit Portal, press the EXIT button.

NOTE

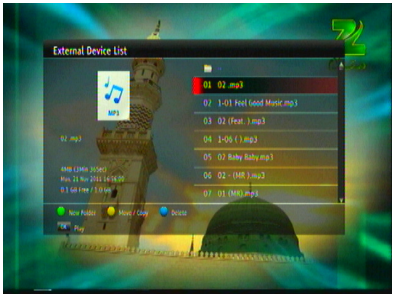
The type of web-portal contents may be changed or updated over the life of this product.

8.2 Copying files

To copy from the external to the internal hard drive, take the following steps:

1. Connect an external hard drive to the digital receiver.
2. Select Entertainment > USB menu.
3. Put the highlight bar on a desired file and press the button, then the list of folders gets displayed.
4. Select a folder in the built-in hard drive.
5. Press the OK button, then the selected file will be copied into the built-in hard drive.

8.3 Playing back a media file on the external hard drive

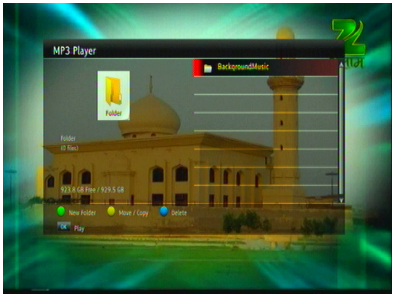


To play back a media file on the external hard drive, take the following steps;

1. Connect an external hard drive to the digital receiver.
2. Select Entertainment > USB menu.
3. Select a file to play back.

The file information is comprised of the following elements: file number, file name, running time, file size and so on.

8.4 Playing back MP3 files



You can enjoy music or audio books in MP3 format on the digital receiver. Refer to §8.2 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play an MP3 file, take the following steps:

1. Select the Entertainment > MP3 Player to display the MP3 file list.
2. Put the highlight bar on a desired file.
3. Press the ▶ button to start playback.
4. To stop playback, press the ■ button.

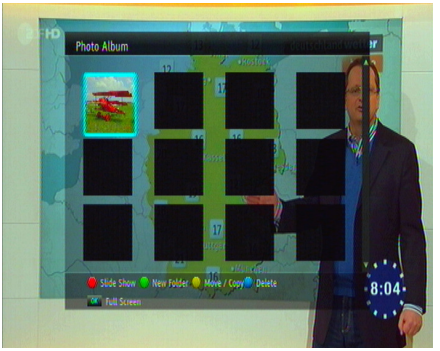
To play all MP3 files in a subfolder, put the highlight bar on a desired folder, and press the ▶ button. To change from one file to the next or previous file, use the ▶| or |◀ buttons.

8.5 Viewing image files

8.5.1 How to move a file to the photo album

You must move the jpg files into the Photo Album folder first. Please ensure your external hard drive is connected to your unit.

1. Select MENU button on your remote then go to Entertainment > USB.
2. You will then get access to your external hard drive. Navigate through the external hard drive file and folders until you have selected the image file you want to transfer.
3. With the file selected, press the button, then another screen will appear. Select Photo Album and press OK.



Now, you can view the image files in jpg format by performing the following steps:

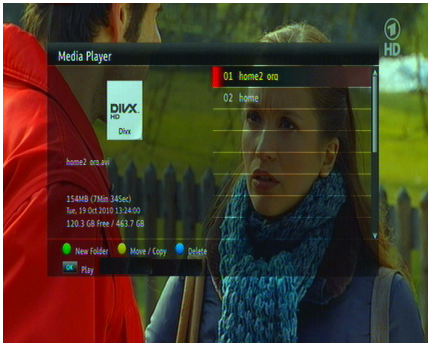
1. Select the Entertainment > Photo Album menu, and then press the ◀◀ or ▶▶ button to display the list of image files.
2. Put the highlight bar on a desired file and press the OK button; if you want to view several files using a slide show, press the button.
3. To stop viewing, press the EXIT button.

8.6 Playing back a video file

You can play back media files such as photos, videos and music with this digital receiver. Media file formats that you can play

back with the digital receiver are as follows:

- video: DivX, XviD, VOB, MKV, MP4, and AVI
- photo: JPG
- music: MP3



Refer to §8.2 as to how to copy a file from an external hard drive into the built-in hard drive of the digital receiver. To play a video file, take the following steps:

1. Select the Entertainment > Media Player to display the video file list.
2. Put the highlight bar on a desired file.
3. Press the ▶ button to start playback.
4. To stop playback, press the ■ button.

NOTE

This digital receiver supports only version 3.x, 4.x, 5.x, and 6.x of the Divx format.

Chapter 9

Accessing via Network

NOTE

The following section describes complex functions that should only be used by owners with advanced computer knowledge.

Here you need a router, which will connect the digital receiver to your computer or to the Internet.

To use the network features of the digital receiver, you should take the following steps:

1. Configuring your router for the digital receiver.
2. Configuring the network settings on the digital receiver.

9.1 Configuring the router

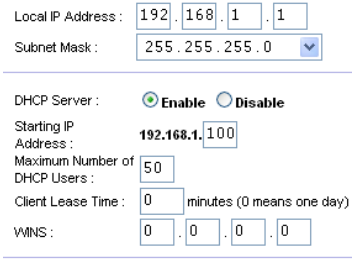
In this section, the setup program of *WRT54G*, which is a router manufactured by *Linksys*, will be referred to as an example of how to configure the router for network access.

NOTE

For detailed description about how to set up the router, refer to the manual of your router.

9.1.1 To access within the local area network

Once your router is powered up, a local area network gets created whether or not it is connected to the Internet.


Local IP Address : 192 . 168 . 1 . 1
Subnet Mask : 255.255.255.0
DHCP Server : Enable Disable
Starting IP Address : 192.168.1. 100
Maximum Number of DHCP Users : 50
Client Lease Time : 0 minutes (0 means one day)
WINS : 0 . 0 . 0 . 0

You can let the router automatically assign a dynamic IP address to the computers or devices connected to the network by enabling the DHCP server of the router. In this case, you can access the digital receiver with the IP address which is assigned to the digital receiver by the router.

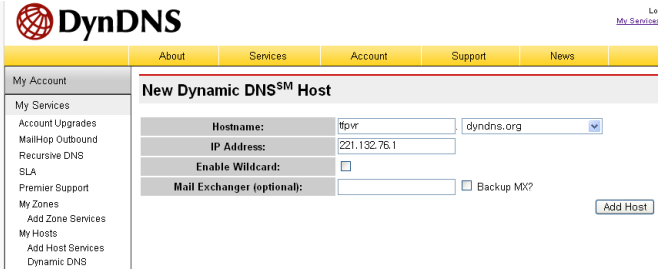
If the digital receiver reboots, a new dynamic IP address will be assigned to it. You had better assign a static IP address to the digital receiver to avoid this inconvenience. As to how to assign a static IP address, refer to the manual of your router; as to how to specify a static IP address on the digital receiver, see §9.2.

9.1.2 To access over the Internet

When you are away from home, you can access the digital receiver inside your home if your router is configured to route access to the digital receiver by means of port forwarding. Via this feature, your router will lead you to the digital receiver when you access your router with its IP address.

Port Range						
Application	Start		End	Protocol	IP Address	Enable
PVRHTTP	80	to	80	Both	192.168.1. 161	☑
PVRFTP	20	to	21	Both	192.168.1. 161	☑
	0	to	0	Both	192.168.1. 0	☐
	0	to	0	Both	192.168.1. 0	☐

Your router may be assigned to a dynamic IP address by an Internet service provider. So if the router has rebooted, you cannot access it unless someone in your home can inform you of the changed IP address. However, many routers support Dynamic Domain Name System (DDNS) service, which can settle this problem. The following image is an example of one such DDNS service provider.

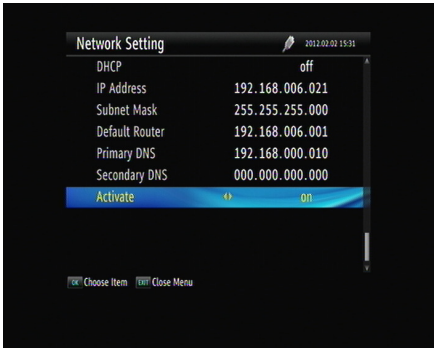


If you use a DDNS service, you can access your router with a domain name. The instructions on how to use the DDNS service are as follows:

1. Make an account on a web site providing DDNS service, which should be supported by your router.
2. Configure your router with the account so that it can communicate with the web site.

Whenever a new dynamic IP address is assigned to the router, it will inform the DDNS service provider of the new IP address. This makes it possible that you access the router with a domain name at any time.

9.2 Configuring the network setting on the digital receiver



You should configure the network settings to enjoy a variety web services. Select the Settings > Installation > Network Setting menu.

The easiest way to configure the network settings is to assign a dynamic IP address to the digital receiver by setting the DHCP option to On.

To assign a static IP address, set the DHCP option to Off, then the IP Address, Subnet Mask, Default Router, Primary DNS and Secondary DNS options become enabled. You have to set these options to match with the configuration of your router.

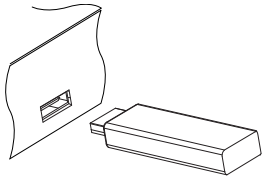
Chapter 10

Firmware Update

The digital receiver has a stable and convenient firmware to use. However, once in a while a new firmware may be released to improve the digital receiver. You can get the latest firmware and the firmware update tool, which runs on most versions of Windows, from the Topfield website, http://www.i-topfield.com.

10.1 From a memory stick

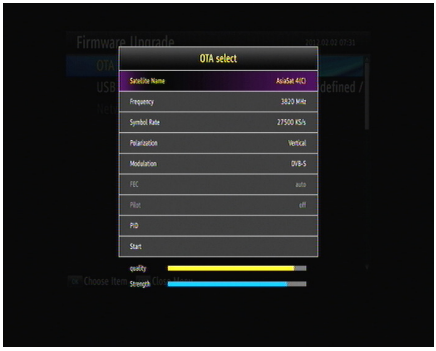
If you have a USB memory stick, you can update the firmware from it by taking the following steps:



1. Download a new firmware from the Topfield website.
2. Copy the firmware file to your memory stick.
3. Insert the USB memory stick into the USB port on the digital receiver.
4. Select the Setting > Installation menu, then select Firmware Upgrade > USB Firmware Upgrade menu, and the files in the USB memory will be listed.

5. Place the highlight bar on the right firmware file and press the OK button, and a countdown will be displayed on the front display of the digital receiver.
6. When the message of 'END' appears, restart the digital receiver.

10.2 Over the air(optional)



You can get a new firmware over the air. Select the Installation > Firmware Upgrade > OTA Firmware Upgrade menu. You should see a screen like the left figure.

Satellite	*Astra* (19.2° E)
Frequency	12603 MHz
Symbol Rate	22000 KS/s
Polarisation	Horizontal
PID	347

On the left table is presented the transponder information appointed by the manufacturer, Topfield, for firmware update.

This transponder information can be changed. You can get the information from the website, http://www.i-topfield.com. Selecting the Start command starts firmware update.

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